

It is to be understood that the forms of the invention described herewith are to be taken as examples and that various changes in the shape, size and configuration of parts may be resorted to, without departing from the spirit of the present invention or the scope of the claims.

WHAT IS CLAIMED IS:

1. A self-contained power controller comprising:
a power driver switch; and
a programmable controller coupled to and communicating with the power driver switch, wherein the programmable controller has a run mode which, when selected, upon the occurrence of a trigger event allows the power driver switch to change its state and wherein the power driver switch is maintained at that state until the occurrence of a second event.
2. The self-contained power controller according to claim 1, further comprising:
an environmental parameter device coupled to the programmable controller, the environmental parameter device providing at least one parameter value to the programmable controller so as to generate a first and second event.
3. The self-contained power controller according to claim 2,
wherein the environmental parameter device is coupled to a controlled device.
4. The self-contained power controller according to claim 2, further comprising:
a communication port including a transceiver for two way communication between the programmed power controller and at least one of a plurality of controllers.
5. The self-contained power controller according to claim 1, further comprising:
an analog voltage device and a direct current voltage device both coupled to a first voltage source at a first voltage value, wherein the analog voltage device produces a second voltage value and the direct current voltage device produces a third

voltage value.

6. The self-contained power controller according to claim 5, further comprising:
wherein the power driver switch is coupled to the first voltage source and has an on state and an off state.
7. The self-contained power controller according to claim 6, further comprising:
a communication port including a transceiver for two way communication between the self-contained power controller and at least one of a plurality of controllers.
8. The self-contained power controller according to claim 7, further comprising:
wherein the plurality of controllers is selected from the group consisting of a self-contained power controller, a supervisory controller, a personal computer, a personal digital assistant, and a keypad.
9. The self-contained power controller according to claim 8, further comprising:
wherein the controller broadcasts identification information that configures the programmed controller to be at least a master or slave with respect to the at least one controller.
10. The self-contained power controller according to claim 9, further comprising:
wherein the controller broadcasts values indicative of the first and second condition which the programmed controller use a value to trigger the change in state of the power driver switch.
11. The self-contained power controller according to claim 7, wherein the controller broadcasts values indicative of the first and second condition to trigger the change in state of the power driver switch.
12. A method for operating a self-contained power controller having an associated power driver switch, a communication port, an environmental

parameter device, and programmed controller comprising:

placing the programmed controller in run mode; and

providing environmental parameter information from a control device; and

evaluating the environmental parameter information to determine the

occurrence of a triggering event; and

changing the state of a power driver upon the occurrence of a triggering event.

13. A method according to claim 12, wherein the communication port is coupled to the programmed controller and at least one of a supervisory controller, a computer, a personal digital assistant, and a keypad.

14. A method according to claim 13, wherein the information received by the programmed controller through the communication port is at least one of run and program mode, identification of the programmed controller as a master or slave programmed controller, and values indicative of the first and second condition which the programmed controller to trigger the change in state of the power driver switch.

15. A method according to claim 12, wherein an analog voltage device and a direct current voltage device both operatively coupled to a first voltage source at a first voltage value, the analog voltage device produces a second voltage value and the direct current voltage device produces a third voltage value,

providing a first voltage to the power driver switch;

providing a second and third voltage to the programmed controller; and

providing a second voltage to the environmental parameter device.

16. A system for operating a self-contained power controller having an associated a power driver switch, a communication port, an environmental parameter device, and a programmed controller comprising:

means for placing the programmed controller in run mode; and

means for providing environmental parameter information from a

control device; and

means for evaluating the environmental parameter information to determine the occurrence of a triggering event; and

means for changing the state of a power driver upon the occurrence of a triggering event.

17. A system according to claim 16, wherein the communication port is in coupled to the programmed controller and at least one of supervisory controller, computer, personal digital assistant, and a keypad.

18. A system according to claim 17, wherein the information received by the programmed controller through the communication port is at least one of run and program mode, identification of the programmed controller as a master or slave programmed controller, and values indicative of the first and second condition which the programmed controller should use that would trigger the change in state of the power driver switch.

19. A system according to claim 16, wherein an analog voltage device and a direct current voltage device are operatively coupled to a first voltage source at a first voltage value, the analog voltage device produces a second voltage value and the direct current voltage device produces a third voltage value;

means for providing a first voltage to the power driver switch;

means for providing a second and third voltage to the programmed controller; and

means for providing a second voltage to the environmental parameter device.

20. A machine-accessible medium having instructions capable of directing a machine to perform:

placing a programmed controller in run mode; and

providing an environmental parameter information from a control device; and

evaluating the environmental parameter information to determine the occurrence of a triggering event; and

changing the state of a power driver upon the occurrence of a triggering event.

21. A machine-accessible medium having instructions capable of directing a machine according to claim 20, wherein a communication port is coupled to the programmed controller and at least one of a supervisory controller, a computer, a personal digital assistant, and a keypad.
22. A machine-accessible medium having instructions capable of directing a machine according to claim 21, wherein the method further comprises:
 - receiving information by the programmed controller through the communication port, wherein the information is at least one of run and program mode, identification of the programmed controller as a master or slave programmed controller, and values indicative of the first and second condition which the programmed controller triggers the change in state of the power driver switch.
23. A machine-accessible medium having instructions capable of directing a machine according to claim 20, wherein an analog voltage device and a direct current voltage device are both operatively coupled to a first voltage source at a first voltage value, the analog voltage device produces a second voltage value and the direct current voltage device produces a third voltage value,
 - providing a first voltage to the power driver switch;
 - providing a second and third voltage to the programmed controller; and
 - providing a second voltage to the environmental parameter device.
24. An apparatus having a power driver switch, a communication port, an environmental parameter device, and a machine-accessible medium, the machine-accessible medium comprising:
 - means for placing the apparatus in run mode; and
 - means for providing environmental parameter information from a control device; and

means for evaluating the environmental parameter information to determine the occurrence of a triggering event; and

means for changing the state of a power driver upon the occurrence of a triggering event.

25. An apparatus according to claim 24, wherein the apparatus is coupled to at least one of supervisory controller, computer, personal digital assistant, and a keypad.

26. An apparatus according to claim 24, wherein the environmental parameter information received by the apparatus through the communication port is at least one of run and program mode, identification of the apparatus as a master or slave programmed controller, and values indicative of the first and second condition that would trigger the change in state of the power driver switch.

27. An apparatus according to claim 16, wherein an analog voltage device and a direct current voltage device are operatively coupled to a first voltage source at a first voltage value, the analog voltage device produces a second voltage value and the direct current voltage device produces a third voltage value, and the machine-accessible medium further comprises:

means for providing a first voltage to the power driver switch;

means for providing a second and third voltage to the programmed controller; and

means for providing a second voltage to the environmental parameter device.

28. A self-contained power controller comprising:

a signal indicative of an environmental condition external to said self-contained power controller;

a first voltage source external to said self-contained power controller;

a second voltage source in said self-contained power controller;

a third voltage source in said self-contained power controller;

a power driver switch in said self-contained power controller and coupled to the first voltage source;

a programmable controller in said self-contained power controller coupled to said second voltage source, said third voltage source, said power driver switch, and said signal indicative of an environmental condition;

wherein the programmable controller has a run mode which, when selected, upon the occurrence of a trigger event allows the power driver switch to change its state and wherein the power driver switch is maintained at that state until the occurrence of a second event.